

3.20. The data storage medium as claimed in claim ~~18~~<sup>3</sup>, wherein PMMA or BOPP is used as polymer film (11).

4.21. The data storage medium as claimed in claim ~~19~~<sup>2</sup>, wherein between the polymer film layers (10) a transparent adhesion agent (12) is used, in particular a pressure sensitive adhesive.

5.22. The data storage medium as claimed in claim ~~21~~<sup>4</sup>, wherein the adhesion agent (12) possesses a refractive index which differs little from the refractive index of the information carrier.

6.23. The data storage medium as claimed in claim ~~22~~<sup>5</sup>, wherein the difference in the refractive indices of information carrier and adhesion agent (12) is so little that the reflection at the boundary is less than 4 %, preferably less than 1 %, and, with very particular preference, such that the difference in the refractive indices is less than 0.005.

7.24. The data storage medium as claimed in claim ~~19~~<sup>3</sup>, wherein the polymer film (11) has a thickness of between 10 and 100  $\mu\text{m}$ , preferably around or below 50  $\mu\text{m}$ , with particular preference around 35  $\mu\text{m}$ .

8.25. The data storage medium as claimed in claim ~~21~~<sup>4</sup>, wherein the adhesion agent (12) has a film thickness of between 1 and 40  $\mu\text{m}$ , preferably below 25  $\mu\text{m}$ , in particular around 2  $\mu\text{m}$ .

9.26. The data storage medium as claimed in claim ~~18~~<sup>1</sup>, wherein the data storage medium has an optically transparent winding core which is formed in particular as a transparent hollow cylinder.

10.27. The data storage medium as claimed in claim ~~18~~<sup>1</sup>, wherein the data storage medium is preformatted, the formatting being formed by and/or by means of the spiral layers (10).

11.28. The data storage medium, in particular as claimed in claim ~~18~~<sup>1</sup>, wherein the optical data storage medium comprises as information carrier a transparent polymer film (11) which is pretensioned, especially in two planes.

12.29. The data storage medium as claimed in claim ~~18~~<sup>1</sup>, wherein the information units, or some of them, can be produced by local thermal heating of the information carrier.

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